

MAMPORIYA, F.D., prof.

Biological incompatibility as exemplified by the intergeneric  
hybridization of lemon with Poncirus trifoliata. Agrobiologija  
no.1:77-88 Ja-F '64 (MIRA 17:8)

1. Gruzinskiy institut subtropicheskogo khozyaystva, Sukhumi.

MAMPORIYA, G.Sh.

Nitration of manganese-chromium alloys. Soob. AN Gruz. SSR 27  
no.1:65-72 Jl '61. (MIRA 16:8)

1. AN GruzSSR, Institut prikladnoy khimii i elektrokhimii, Tbilisi.  
Predstavлено академиком АН ГрузССР Р.И.Агладзе.  
(Chromium-manganese steel) (Nitration)

1. MAMPORIYA, F. D.
2. USSR (600)
4. Agriculture
7. Peculiarities of reproduction, growth, development, and formation of shape in citrus fruits and some other wild oranges. Tbilisi, Gosizdat Gruz. SSR, 1951.
9. Monthly List of Russian Accessions, Library of Congress, February, 1953. Unclassified

1. M'K'ORTYK, F.D.
  2. USSR (600)
  4. Orange
  7. Vegetative hybridization of aurantiaceae.  
Izv. AN SSSR Ser. biol. no. 6. 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

MAMPORIYA, F.D., prof.

Action of the fertilizing principle upon nucellar cells in citrus plants. Agrbiologija no.5:119-131 S-0 '57. (MIRA 10:10)

1. Kafedra chaya i subtropicheskogo plodovodstva Kutaisskogo sel'skokhozyaystvennogo instituta i Sukhumskaya optytnaya stantsiya subtropicheskikh kul'tur Vsesoyuznogo instituta rasteniyevodstva.  
(Fertilization of plants) (Citrus fruits)

MAMPORIYA, F.D., professor

Reproduction of vegetative hybrids and their progeny from seed.  
Agrobiologia no.1:114-119 Ja-F '60. (MIRA 13:5)  
(Hybridization, Vegetable) (Grafting)

MAMPORIYA, F.D., prof.

Slava Michurina, a new orange variety. Agrobiologija no.4:  
517-521 Jl-Ag '60. (MIRA 13:8)

1. Gruzinskiy institut subtropicheskogo khozyaystva i Sakhumskaya  
opytnaya stantsiya subtropicheskikh kul'tur Vsesoyuznogo  
instituta rasteniyevodstva.  
(Orange--Varieties)

MAMPORIYA, F.D., prof.

Metabolism and the development of vegetative hybrids with  
different hereditary characteristics. Agobiologija no. 1:50-  
61 Ja-F '61. (MIRA 14:2)

1. Gruzinskiy institut subtropicheskogo khozyaystva, g.Kutaisi.  
(Citrus fruits) (Grafting) (Metabolism)

MAMPORIYA, F.D., prof.

Vegetative hybrid of the narrow-leaved Washington navel orange with  
P. trifoliata. Agrobiologija no.4:535-546 Jl-Ag '62. (MIRA 15:9)

1. Gruzinskiy institut subtropicheskogo khozyaystva, Sukhumi.  
(SUKHUMI REGION--ORANGE) (GRAFTING)

MAMDORIVAI R.D., prof.

Accelerating the introduction of better citrus varieties.  
Agrobionetica, 1987(5-7) p. 1-10. VIF4, p. 4

1. Gruzinische Zitrusfrüchte sind sehr unterschiedlich wachsend und,

MAMPORIYA, F.D., prof.

Intergeneric graft hybrids and so-called plant chimeras.  
Agrobiologija no.6:899-912 N-D '65.

l. Gruzinskiy institut subtropicheskogo khozyaystva, g.  
Sukhumi. (MIRA 18:12)

18 1275

25390  
S/080/61/034/002/010/025  
A057/A129

AUTHOR: Agladze, R.I., Mamporiya, G.Sh.

TITLE: On thermal stability of nitrated electrolytic manganese

PERIODICAL: Zhurnal Prikladnoy Khimii, v 34, no 2, 1961, 345-350

TEXT: In the present work nitration of electrolytic manganese in ammonia and nitrogen gas was investigated and the effect of the nitration method and conditions on the thermal stability of the product were studied. Nitrated manganese is important for the production of austenitic stainless Cr/Mn steel. N.P. Chizhevskiy (Ref 6; ZhRMO, 2, 127-134 (1913)) first observed the reaction of manganese metal with gaseous nitrogen and ammonia. Since then nitration of manganese was investigated repeatedly, but thermal stability of the obtained products has not yet been studied. Saturation of electrolytic manganese with nitrogen was carried out in the present experiments in an apparatus presented in Fig 1. Electrolytic manganese of

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the Mp0 10CT 6008-51 (Mp0 GOST 6008-51) type containing Mn 99.8%, S 0.08%, C 0.08% was used in 1 kg weights. The obtained results indicate (Fig 2) that maximum nitrogen content (14%) in manganese (using ammonia gas) is reached at 700°C in 12 hrs. Manganese alloys containing up to 6 weight % of nitrogen are ferromagnetic ( $\epsilon$ -phase, Mn<sub>4</sub>N), while above 6% nitrogen content they lose ferromagnetic properties. Results (Fig 3,4) obtained from experiments in nitrogen atmosphere indicate that at 900-950°C, holding time 1-2 hrs, and nitrogen consumption of 0.5-1 l/min a product containing 6.2 weight % of nitrogen is obtained. These results are in agreement with corresponding literature data. Thermal stability of the nitrated samples was determined by denitration, i.e., a method used for steel (Ref 12: V.I. Prosvirin, N.P. Agapova, "Azot v stali" ("Nitrogen in steel"), 5-31 (1950)) consisting in determination of the volume of gas removed by heating the nitrated manganese sample (Tab. 1). The liberated gas was collected and measured in the temperature interval of 700-1,300°C at each 100°C. After denitration the nitrogen content was determined by weighing the sample and by chemical analysis (Tab. 2). Discrepancies in results obtained by these two methods indicate that other impurities are also

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removed by heating. Denitration isotherms (Fig. 6-8) indicate that the amount of absorbed nitrogen depends on temperature and duration of the nitration process. Comparing the isotherms "gas volume versus time" it can be seen that thermal stability of the product depends on nitration conditions. Nitration of manganese at 1,000°C is identical in nitrogen and ammonia atmosphere, but according to the denitration results (Fig. 7,8) nitration in nitrogen atmosphere is more appropriate. Manganese nitrated at the high temperature of 1,000°C is thermally more stable than the product obtained in nitration of 700°C. There are 9 figures, 2 tables and 12 references: 7 Soviet-bloc and 5 non-Soviet-bloc. The three English-language publications read as follows: V.F. Zackay et al, Trans. ASM, 48, 509 (1956), E.G. Whittenberger et al, Metals. Trans. AlME, 7,889 (1957), M. Hansen, Constitution of binary alloys, N.Y., Toronto, London (1958).

SUBMITTED: March 19, 1960

Card 3/9

34723

S/137/62/002/002/116/14-  
11/1981

18.1275

Alloy 5 - Properties

Chemical composition:

Mn 1.0, Cr 1.0, Ni 0.8, Ti 0.5, Fe 0.5, Al 2.0, Si 1.0, C  
(0.01 - 0.02), N 0.014, O 0.25, H<sub>2</sub>O 0.02;

Investigation was conducted upon the nitriding of electrolytic Cr-Mn alloys (in  $\beta$ ) - Cr 0.02, Ti 5.0%, Fe-Cr-Al 2.0%, Si 1.0%, Mn 7.0%, Cr 3.0%, N 0.014, O 0.25, H<sub>2</sub>O 0.02; also electrolytic Mn - Mn 99.98% + 0.02 Cr, as well as alloys of Mn with Cr (at intervals of approximately 10% Cr) in an N<sub>2</sub> and H<sub>2</sub> environment at temperatures 700 - 1,100°C. It was established that the optimal nitriding temperature of alloys containing up to 40% Cr is 800 - 850°C, and for alloys richer in Cr - 1,000 - 1,150°C. The experimental data on denitriding (at 700 - 1,200°C) have indicated that the nitriding conditions of alloys of the Mn-Cr system have an effect upon the heat-resistance of the product obtained. The higher the nitriding temperature, the more heat-resistant is the product obtained. Two factors affect the heat-resistance of nitrided

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Nitriding alloys of manganese with chromium

S/137/62/000/KS/116/1--  
/060/A101

alloys of the Mn-Cr system, the Cr content of the alloy and the nitriding temperature. There are 7 references.

A. Babayev

[Author's note. Complete translation]

X

Card 2/2

MAMPORIYA, G.Sh.

Nitration of manganese-iron alloys. Trudy Inst. prikl. khim.  
i elektrokhim. AN Cruz. SSR 4 37-44 '63. MIREL 1964

AGLADZE, R.I., akademik; MAMCHOVIYA, G.Sh.; TUTUBAEV, V.L., . . .

Chemical stability of manganese nitride, Serii A' Gruz. SSR, 1964,  
no. 3:593-606 S '64.

MIRA . . .

1. Institut prikladnoy khimii i elektrokhimii AN GruzSSR.
2. Akademiya nauk Gruzinskoy SSR after Agladze .

MAMPORIKA, I.A.

Therapy of sluggish non-healing abscesses with sodium citrate.  
Khirurgiia, Moskva, no.4:72 Ap '50. (CLML 19:2)

1. Of Samtredia Municipal Hospital.

MAMPORIYA, N.M.

USSR/Human and Animal Morphology. Circulatory System.

S-2

Abs Jour: Referat. Zh.-Biol., No 1, 10 January, 1958, 2857.

Author : Mamporiya, N.M. .

Inst :

Title : Microscopic Vascularization of the Uterus Under Normal  
And Experimental Conditions.

Orig Pub: Tr. In-Ta Ekspерим. Morfol. An Gruz SSR, 1955, 5, 149-162.

Abstract: The distribution of the segmental vessels of the uterine artery was studied roentgenographically, and the capillary network was studied on injected histological preparations. It was established, for human and canine uteri, that the segmental arteries form 4 capillary networks in the serous membrane, myometrium, and in basal and functional layers of the endometrium. The network of the functional layer is most extensive. The networks were connected by numerous anastomoses which were developed

Card : 1/2

-14-

Country	: USSR
City	: Tbilisi, Georgia.
Issue Date	: 1987-04-16, 1987, 1988
Author	: V. M. Kostylev, N. I.
Institution	: Ministry of Environmental Monitoring, Is*
Title	: Interim Assessment of the Status of Some Soil Contaminants.
Crit. Ref.	: Tbilisi, Georgia. Tbilisi, 1987, 1988-1989.
Abstract	: This document contains information on the status of soil contamination in Georgia. It includes information on the following: 1) the types of soils, their properties and composition; 2) the distribution of various types of organic contaminants. ICA does not contain concrete quantitative data. The size of all amounts is expressed in terms of the "c" unit, which is the concentration of a contaminant in a cubic meter of soil or ground.
Card:	1/3 * Georgian SSR.

Country : USSR  
Category : Farm Animals,  
Domestic Poultry.  
Aba. Jour : Ref. Zhur-Biol., No 1, 1950, 73964 4-1  
Author :  
Institut. :  
Title :  
  
Orig. Pub. :  
  
Abstract : In cattle, AUA supplies all ovaries and only  
partly the uterus in comparison to the  
rumen RUA. The size of CUA in cows amounts to  
13-15 mm, in sheep and goats to 4-5 mm, and in  
pigs to 7-8 mm. Functionally, CUA supplies the uter-  
ine horns, parts of the uterine body and tubes.  
PCA is distributed on the ventral surfaces of the  
uterus neck; its size in cows is 12-14 mm, in  
sheep and goats 2.5-3.5 mm, the length is 4 mm.  
PUA supplies the neck and partly the body of

Card: 2/3

MAMPORIYA, N.M.

[Blood and lymphatic vessels of the uterus] Sosudy matki.  
Tbilisi, Izd-vo akademii nauk Gruzinskoy SSR, 1958. 79 p.  
(UTERUS--BLOOD SUPPLY) (LYMPHATICS) (MIRA 11:9)

MAMPORIYA, N.M.

Case of a horseshoe-shaped kidney. Trudy Inst. eksp. morf. AN  
Gruz. SSR 8:235-240 '60. (MIRA 14:10)  
(KIDNEYS—ABNORMITIES AND DEFORMITIES)

MANFORIYA, N.M.

Experimental arterial ischemia of the liver. Trudy Inst. eksper. morfol. i patol. AN Gruz. SSR 11:131-137 '63.

Structural changes in the liver in portacaval anastomosis. Ibid.: 139-145  
(MIRA 17:1)

1. Institut eksperimental'noy morfologii imeni Natishvilli AN GruzSSR.

MAMRADZE, G. P.

"Investigation of the Parameters of a Hydroelectric Station Within a System With Prevailing Hydraulic Power." Thesis for degree of Cand. Technical Sci.  
Sut 13 Nov 49, Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov

Summary 82, 18 Dec 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

MAMRADZE, G. P.

"Study of the Optimum Parameters of a Hydroelectric Power Station in a System in Which Hydroelectric Power Predominates," (Issledovaniye optimal'nykh parametrov ges v sisteme s preobladaniyem gidroenergii), Elektrичество, No 7, 1959.

MEI (Moscow Electrical Engineering Institute)  
Dissertation for Candidate Degree

MAMRADZE, GRIGORY PETROVICH

DZI VARSHEYSHVILI, Aleksandr Gayozovich, kand.tekhn.nauk; MAMRADZE, Grigoriy  
Petrovich, kand.tekhn.nauk; IVANOV, A.Ye., otvetstvennyy red.;  
NADEINSKAYA, A.A., tekhn.red.

[Organization of hydraulic filling in coal mines] Organizatsiya  
gidrozakladochnogo khoziaistva na ugol'nykh shakhtakh. Moskva,  
Ugletekhizdat, 1957. 182 p.  
(Hydraulic mining)

MOSTKOV, Mikhail Abramovich [deceased], prof.; MAMRADZE, G.P., kand. tekhn. nauk, red.; LEVIN, B.M., inzh., red.; VERNINA, G.P., tekhn. red.

[Hydraulics] Gidravlika. Moskva, Gos. transp. zhel.-dor. izd-vo,  
1958. 346 p. (MIRA 11:9)

1. Chlen-korrespondent Akademii nank Gruzinskoy SSR (for Mostkov).  
(Hydraulics)

MOSTKOV, Mikhail Abramovich; MAMRADZE, G.P., kand.tekhn.nauk, otv.red.;  
ZAL'PSMAN, Ye.I., red.izd-va; KASHINA, P.S., tekhn.red.

[Theory of channel currents] Ocherk teorii ruslovoogo potoka.  
Moskva, Izd-vo Akad.nauk SSSR, 1959. 244 p. (MIRA 12:4)

1. Chlen-korrespondent Akademii nauk Gruzinskoy SSR (for Mostkov).  
(Rivers) (Hydraulics)

SHENGELIYA, F.G.; MAMRADZE, G.P., red.; VOLKOVA, I.P., red. izd-va;  
BOKERIA, N.B., tekhn. red.

[Multistage development of mountain rivers] Voprosy kaskadnogo  
ispol'zovaniia gornykh rek. Tbilisi, Izd-vo Akad. nauk Gruzinskoi SSR, 1961. 299 p.  
(MIRA 15:3)  
(Georgia—Hydroelectric power stations)

SOV/124-58-4-4098

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 4, p 60 (USSR)

AUTHOR: Mamradze, G. P.

TITLE: Investigation of the Water Hammer in the Presence of Air Inclusions in a Pressure-conduit Loop (Issledovaniye gidravlicheskogo udara pri nalichii v napornoy derivatsii vozдушnykh vklyucheniy)

PERIODICAL: Tr. In-ta energetiki AN GruzSSR, 1953, Vol 7, pp 37-49

ABSTRACT: Bibliographic entry

1. Pipelines--Pressure    2. Noise--Analysis    3. Air--Performance

Card 1/1

MANDZHAVIDZE, Natela Ferapontovna; MAMRADZE, Grigoriy Petrovich;  
SHENGELIYA, P.G., prof., red.

[Catalog of high dams; with a height greater than 75 m.]  
Katalog vysokikh plotin; vysotoi bol'se 75 m. Tbilisi, Izd-  
vo AN Gruz. SSR, 1963. 185 p. (MIRA 18:5)

1. Chlen-korrespondent AN Gruz.SSR (for Shengeliya).

MAMRILLA, J.

On some properties of the solutions of a linear differential  
equation  $y^{IV} + 2A(x)y' + [A'(x) + b(x)]y = 0$ .  
Acta r nat Univ Com 7 no.11:597-608 '63.

1. Katedra matematiky prirodovedeckej fakulty, Univerzita  
Komenskeho, Bratislava, Smeralova 2.

OŁSZAK, Feliks, mgr. inż.; MAMRO, Kazimierz, dr. inż.

Steel deoxidation in a vacuum. Huta Lenina prace nr. 10.36-46  
'61.

MAMRO, Kazimierz

Some problems of kinetics of the outflow of deoxidization products. Metal i odlew no. 9:31-35 '63.

1. Katedra Metalurgii Stali, Akademia Gorniczo-Hutnicza, Krakow.

DIACZUK, Henryk; KAMIO, Kazimierz; KIEZANEK, Tadeusz; PACZULA, Boleslaw

Certain problems connected with the construction of the first  
installation for continuous steel casting in Poland. Przegl.  
naukowo-techniczny AGH nr. 2(?)-4 1974

1. Department of Steel Metallurgy, School of Mining and Metal-  
lurgy, Krakow, and Jelenia Steel Works, Siemianowice.

ZHITNITSKAYA, E.A.; SROMSKAYA, T.F.; MUSKOVA, Ye.E.

Clinical aspects and treatment of trichosistomiasis patients.  
Med.paraz.i paraz.66, 33 no.4, 1989 31-32 l.u.

(V.14.1.8.)

1. Klinicheskiy otdel Instituta meditsinskoy para. i lecheniya  
tropicheskoy meditsiny imeni Ye. S. Gartvina na ul. Voznesenskaya,  
molegiicheskaya stantsiya Moskvy i oblastnaya otdel na ul. 100-letiya  
Meleckova Ul'yanovskogo rayna Mol. vikley stran.

KUZ'MIN, A.I.; SHAFFER, G.V.; SHAFFER, Yu.G.; KRASIL'NIKOV, D.D.;  
KRYMSKIY, G.F.; MAMRUKOV, A.P.; SMIRNOV, N.S.; YARIN, V.I.

July 1959 according to data of comprehensive geophysical  
observations at Yakutsk. Trudy IAFAN SSSR. Ser. fiz. no.4:142-156  
'62.

(MIRA 15:12)

(Magnetic storms)  
(Cosmic rays)

L 04446-67 EWT(1)/FCC GW  
ACC NR: AP6018936

SOURCE CODE: UR/0203/66/006/003/0618/0621

AUTHOR: Mamrukov, A. P.; Kiselev, V. A.; Kornil'yev, V. M.

ORG: Institute of Cosmic Physics Investigation and Aeronomy, Yakutsk Branch, SO AN SSSR  
(Institut kosmofizicheskikh issledovanii i aeronomii Yakutskogo filiala SO AN SSSR)

TITLE: A device for visible registration of the H component of the Earth's magnetic field

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 3, 1966, 618-621

TOPIC TAGS: earth magnetic field, magnetic field measurement, electronic circuit

ABSTRACT: An experimental device for the registration by pen on graph paper of the variations of the H-component of the Earth's magnetic field is described. Appropriate sensors enable the device to register arbitrary components of the magnetic field. The device, now in operation in Yakutsk, consists of a sensor in a constant temperature chamber and a registering device placed 100 m away and connected by an underground cable. The sensor consists of a magnetic variometer equipped with two FS-K2 photoresistors. The paper presents the basic theory, the circuit diagram, and transformer data. The sensitivity of the device may be varied

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UDC: 550.386:681.2

L 04446-67

ACC NR: AP6018936

by changing the resistance in the d-c amplifier grid circuit yielding 3, 1.5, and 0.5 Y/mm.  
An example of field component registration is also given. Orig. art. has: 1 formula, 3  
tables, and 1 figure.

SUB CODE: 08, 14, 20/ SUBM DATE: 28Jul65/ ORIG REF: 002

Card 2/2 *copy*

MAMIRYKIN, G.

AUTHOR:

Mamrykin G

3-5-33/38

TITLE:

The Preparation of National Cadres in the Indian Republic  
(Podgotovka natsional'nykh kadrov v Respublike Indii)

PERIODICAL:

Vestnik vysshey shkoly, 1957, Nr 5, pp 82-86 (USSR)

ABSTRACT:

The author reports on the evolution and organization of Indian education from information obtained during a meeting with students of the Calcutta Engineering-Technological Institute. The author states that since 1947 the development of education in India has made great progress. A committee was charged with the mission to prepare a five-year-plan to train technical specialists, to unify the training program, and to train a qualified teaching staff. Many colleges were founded and developed and the number of technical students increased from 45,643 in 1957, to 88,827 in 1952. The number of technical institutions increased from 28 in 1947 to 43 in 1955. A system of free practical training, evening courses improvement of equipment and teaching staff and research work was developed. Consequently, 88 research institutes and 14 national laboratories were founded after 1957. A program of support for the training of cadres has been

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The Preparation of National Cadres in the Indian Republic

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organized. This help comprises the directing of Soviet specialists into Indian institutes, translating of Soviet manuals into English, the supply of equipment for some special laboratories and training in the USSR was made available to Indian teachers and students. The Soviet Union has agreed to train 200 students from the countries assisted by the UN Economic Commission in Soviet vuzes. This group includes 55 Indian students. Indian students are also invited to visit colleges in Czechoslovakia, the German Democratic Republic, Poland, the Chinese People's Republic and Rumania. India is now studying the educational systems of other countries, in particular that of the Soviet Union. The author concludes that India will need a considerable period of time in order to realize her educational program. There are, however, many more possibilities now than ever before.

AVAILABLE: Library of Congress

Card 2/2

MAMRYKIN, G.

Growth of India's shipping. Vnesh.torg. 27 no.10:32-36 '57.  
(MIRA 10:11)  
(India--Shipping)

MAMRYKIN, K., inzh.; POLYAKOV, V., inzh.; LADENKO, V., inzh.

Logs under control. Izobr. i rats. no.8:11 Ag '62.  
(MIRA 15:9)  
1. TSentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii  
i energetiki lesnoy promyshlennosti.  
(Lumbering—Equipment and supplies)

Khavalkin, G. I., and N.

Dissertation: "Influence of the elec. field on the properties of the polymer."

Order of Lenin, Order of Tchelomey, Order of the Red Banner

**SO Vecheryaya Moskva**  
**Sum 71**

G. V. Shchukin

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001032110005-8

MAS/RELLIG, V.1.

"On the Fermi Theory of Beta Decay for Light Elements" (Rev. Modem.  
di Fisica, Vol. 5, 1933).

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001032110005-8"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001032110005-8

MINGAELISOV, V. I.

"Precise Estimate of the Formula of Bethe and Peierls in the Limiting Case of Deuterons by Gamma Rays," Zhur. Ekspер. i. Teor. Fiz., 5, 1935

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001032110005-8"

MAMSAKILISOV, V. I.

"Capture and Detention of New Neutral Particles," Znat. fiz.,  
Tvert. Fiz., 1, 1971.

MAMMAREKHOV, V. I.

"Selective Penetration of Slow Neutrons into the Nucleus," Zhur. fiz.,  
i Tekn. fiz., 1, 1936.

MAMBAKILOV, V. I.

"On the Question of the Existence of Alpha Particles in N.G.I." Zhur. Eksper. i Teoret. Fiz., 5, 1939.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001032110005-8

MAMSAKHLISOV, V. I.

"Electrolytic Disintegration of Boronium" Zhar. Fiz. Khim., 7, N 1, 1943.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001032110005-8"

MAMAKHILOV, V. I.

"Internal Conversion in the Muon Decay by Electrical excitation of the Nucleus," 1947, Zhur. Skoper. i Teoret. Fiz., 11, 81.

Tbilisi State Univ. im I. V. Stalin

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001032110005-8

MAMAGHILISOV, V. I.

"Scattering of Light by a Dielectric Sphere in a Gas,"  
Zhur. Tekhn. i Kibernetika, No. 11, 1961.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001032110005-8"

MAMSAKHILISOV, V. I.

Distr: u23d

2596

INVESTIGATION OF THE  $\text{Be}^7(\text{de})\text{H}^3$  NUCLEAR REACTION

V. I. Mamashilov (Academy of Sciences, Georgian SSR),

Soviet Phys. LETT. 4, 880-4 (1987) May.

An investigation is carried out on the reaction between the nucleus of Be and a deuteron in which the latter is captured by the nucleus and the unpaired neutron is ejected. The effective cross section of the process and the angular distribution of the freed neutron were found. The comparison of the angular distribution with experimental data revealed its satisfactory agreement for small angles up to  $10^\circ$  (theta).

MAMSIKOV, Aleksandr Zakharovich

[Prevention of injuries in agriculture] Profilaktyka travmatyzmu v  
sil'skomu hospodarstvi. Kyiv, Derzh. med. vyd-vo URSR, 1954. 73 p.  
(AGRICULTURE--SAFETY MEASURES) (MIRA 10:2)

MAMSIKOV, A. Z. (Kiyev)

Prevention of agricultural accidents. Fel'd. i akush. no.12:23-26  
D '54. (MLRA 8:?)

(AGRICULTURE  
traumatism in Russia, prev.)  
(WOUNDS AND INJURIES  
agricultural in Russia, prev.)

MAMSIKOV, A.Z.

Healthy work in the field. Zdorov'e 2 no.6:9-10 Je '56. (MLRA 9:8)

1. Nauchnyy sotrudnik Kiyevskogo instituta gigiyeny truda i  
professional'nykh zabolеваний  
(AGRICULTURAL LABORERS) (PUBLIC HEALTH, RURAL)  
(AGRICULTURE--ACCIDENTS)

MAMSIKOV, A. Z.

MAMSIKOV, A. Z., Cand Med Aci --(diss) "Traumatism in agriculture and its prevention." Kiev, 1958. 15 pp with graphs (Kiev Order of Labor Red Banner Med Inst in Acad A.A. Bogomolets) 200 copies. List of author's works, p 15 (KL, 20-58,102)

MAMSIKOV, A., kand. med. nauk

Healthy working conditions for tractor operators. Nauka i pered. op.  
v sel'khoz. 9 no.7:67-69 Jl '59. (MIRA 12:11)  
(Tractors)

MAMSIKOV, A.Z., kand.med.nauk; MEN'SHOV, A.A., kand.med.nauk; KUBYAK, O.K.,  
nauchnyy sotrudnik; RADCHENKO, A.V., inzh.

Sanitary and hygienic characteristics of working conditions in the  
operation of caterpillar tractors at high speeds. Gig. i san. 26  
no.10:20-27 0 '61. (MIRA 15:5)

1. Iz Kiyevskogo nauchno-issledovatel'skogo instituta gigiyeny truda  
i professional'nykh zabolеваний.

(AGRICULTURAL WORKERS--DISEASES AND HYGIENE) (TRACTORS)

MAMSUROV, Kh.M., inzh.

Contactless electric steering gear. Sudostroenie 24 no.4:30-34  
Ap '58. (MIRA 11:4)  
(Steering gear)

MAMSUROV, Kh.M., inzh.

Reversible saturation chokes. Sudostroenie 25 no. 5:28-32 My  
'59.  
(Electricity on ships)

MANSUROV L.A.

127-5-1-5/23

AUTHORS: Mukhin, M.Ye., Candidate of Technical Sciences, Mansurov,  
L.A., and Rafiyenko, D.I., Mining Engineers

TITLE: Blasting of Ore by Small-Diameter Shot-Holes in the Mining  
of Veins (Othoyka rudy st. utali naicgo diametra pri razr.-  
botke zhil)

PERIODICAL: Gornyy Zhurnal, 1956, Nr 1, pp 32-34 (USSR)

ABSTRACT: In order to establish the effectiveness of small-diameter shot-holes, the Institute of Mining of the USSR Academy of Sciences has carried out experiments in the mines of Primor'ye (Far East Coastal region), Kazakhstan, Dal'stroy and the Severonikel' combine. Horizontal and sloping shot-holes were drilled with machines of various types, such as CM-506, Ph-50k and TP-4, under various mining and geological conditions. The diameter of boring bits varied from 25 to 46 mm. under the constant pressure of the compressed air, and durations of drilling and depth of shot-holes were measured. The results of the experiments are shown in tables and in a graph. The authors draw the following conclusions from the experiments: the speed of drilling

Card 1/2

127-33-1-3/2

Blasting of Ore by Small-Diameter Shot-Holes in the Mining of Veins

increased 1.7 to 2 times when single-chisel bits of 25 to 30 mm in diameter, instead of 46 mm, were used; the efficiency of the workers increased 1.5 times; compressed-air consumption was reduced by 40 to 70% and consumption of explosives and hard alloys was also considerably reduced. It is necessary to manufacture high-power explosives of the rock ammonite type in cartridges, 31 mm in diameter. This will make it possible to use 26 mm outer-diameter shot-holes. A.F. Nasarchik, Z.A. Tarpogosov and V.N. Chastukhin participated in these experiments.

The article contains 1 graph, 4 tables and 1 Soviet reference.

ASSOCIATION: Institut Chernogo Jela AN SSSR (Institute of Mining of the AS USSR)

AVAILABLE: Library of Congress

Card 2/2      1. Drilling machines-Applications    2. Mining engineering-USSR  
                  3. Explosives-Applications    4. Drilling machines-Equipment

AUTHORS: Agoshkov, M.I., Corresponding Member of the AS USSR and  
Mamsurov, L.A., Mining Engineer SOV-127-58-10-17/29

TITLE: A Mechanization of Stoping at Mansfeld Mines (Mekhanizatsiya ochistnoy vyyemki na rudnikakh Mansfel'da)

PERIODICAL: Gornyy zhurnal, 1958, Nr 10, pp 54-60 (USSR)

ABSTRACT: The authors describe the mechanization of stoping in the mines of Mansfeld (Soviet zone of Germany). There are 2 photos, 5 sets of diagrams and 6 non-Soviet references.

ASSOCIATION: IGD AN SSSR (IGD AS USSR)

1. Mining industry--Germany    2. Mining engineering

Card 1/1

*L. A. MAMSIURIN*

TABLE I BOOK INFORMATION 507/944

Academy of Sci., Institut gornogo deya-

Kraebyuro problemy i zadaniya po voprosam razrabotki mestorozhdenii i rastvorenii mineral'nykh depozitov v razvedivaniye i razrabotke. Izd-vo Akad. Nauk SSSR, 1959. 333 p. 30000 copies printed. Errata slip inserted.

Resp. Ed. I.V. Melnikov, Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: N.I.P. Vashlyev, Tech. Ed.: F.Z. Kachina.

PURPOSE: This book is intended for coal and ore mining engineers.

CONTENTS: The collection of articles reports on the results of scientific studies conducted by members of the Institute of Mining Industries of the AN SSSR on problems of developing and exploiting coal and ore deposits. The book is divided into two parts. Part I discusses the development and exploitation of coal deposits, the second in developing underground and surface exploitation methods, the scientific bases and principles applied in selecting exploitation methods for different conditions. The determination of the basic elements in the use of modern mechanized equipment in underground development and the preparation and exploitation of coal. Part II is devoted to problems in the development and exploitation of ore deposits, the draining and mining methods used in underground exploitation of deposits in the area of the Kursk Magnetic Anomaly (the open pit mining method used in exploiting the rich Kursk ores), the determination of sizes of ore and further ore dressing. The book is dedicated to academic Lev DMITRIEVICH Shevtakov, mining engineer. The articles are accompanied by diagrams, tables, and bibliographic references.

TABLE OF CONTENTS:

507/944	SCIENTIFIC PROBLEMS (CONT.)
	Evaluating Blast-holes in Underground Drilling 261
	with Rotary Cutters and Pneumatic Hammers 261
	Breaking
	Krasavin, G.A. Analysis of the Distribution of Working Time 368 in Drilling Blast-holes with Pneumatic Hammer Units
	Frolovich, V.P. and Ye.A. Melnikov. Stress Distribution in 274 Chamber Roofs
	Melnikov, M.Ye. and L.A. Mamsiurin. Study of the Basic Parameters 281 in a Dressed Set
	Research, A.P. Technique of Determining the Minimum Lump Size 292 of Dressed Ore
	Panfilov, Ye.I. Ore Dressing and its Basic Indexes 298

CARD 6/7

AGOSHKOV, M.I., prof.; MUKHIN, M.Ye., kand.tekhn.nauk; NAZARCHIK, A.F.,  
kand.tekhn.nauk; MAMSUROV, L.A., gornyy inzh.; RAFIYENKO, D.I.,  
gornyy inzh.; SERGEEV, A.A., otv.red.; SLAVOROSOV, A.Kh., red.  
izd-va; BOLDYREVA, Z.A., tekhn.red.

[Systems of mining vein deposits] Sistemy razrabotki zhil'nykh  
mestorozhdenii. Pod obshchei red. M.I. Agoshkova. Moskva, Gos.  
nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 375 p.  
(MIRA 14:1)

1. Chlen-korrespondent AN SSSR (for Agoshkov).  
(Mining engineering) (Ore deposits)

MAMSUROV, L. A., Cand. Tech. Sci.. (diss) "Analysis of Systems of Development and Technology of Clean Mining of Sloping-sliding Thin Ore Deposits," Moscow, 1961, 22 pp. (Krasnoyarsk Inst. of Non-Ferr. Metals) 200 copies (KL Supp 12-61, 270).

MAMSUROV, L.A., inzh.

Using the energy of explosives for controlled blasting and  
breaking of an ore body in mining flat and inclined seams.  
Nauch. soob. Inst. gor. dela 7:58-71 '61. (MIRA 15:1)  
(Blasting)

MAMSUROV, L.A., kand. tekhn. nauk; GRAZHDANOVA, Ye.S., red.

[Improvement in ore breaking and haulage during the mining of flat veins; report at the conference on the problems of investigating efficient methods of mining vein deposits held in Irkutsk, June 4-6, 1963] Sovershenstvovanie otboiki i dostavki rudy pri vyemke pologikh zhil; doklad na soveshchaniye po voprosam izyskaniya effektivnykh sposobov razrabotki zhil'nykh mestorozhdenii v g. Irkutske (4 - 6 iiunia 1963 g.) Moskva, In-t gornogo dela im. A.A.Skochinskogo, 1963. 17 p.  
(MIRA 18:3)

168000 (139,103,1132)

31272  
S/103/61/022/011/013/014  
D266/D306

AUTHOR: Mamsurov, M. S. (Leningrad)

TITLE: Study of control processes with the aid of matrix transformation

PERIODICAL: Avtomatika i telemekhanika, v. 22, no. 11, 1961,  
1543-1545

TEXT: The purpose of the paper is to suggest a new approximate method for solving a linear differential equation system occurring in problems concerned with control processes. The differential equation system studied can be written in the following matrix form:

$$\frac{dx}{dt} = Ax \quad (2)$$

where t - independent variable, A - matrix of coefficients where all the coefficients are assumed real, x - column matrix containing

Card 1/4

Study of control ...

31272  
S/103/61/022/011/013/014  
D266/D306

the dependent variables  $x_1, x_2, \dots x_n$ . The matrix A is subjected to the transformation

$$\rho = \frac{\lambda + m}{R} \quad (3) \quad 4$$

Where R - radius of a circle containing all the eigenvalues of matrix A,  $\lambda$  - eigenvalue,  $m = R + \alpha$  - coordinate of the center of the circle,  $\alpha$  - given degree of stability. Using the above transformation the characteristic equation takes the following form:

$$|A_1 - \rho E| = 0 \quad (4)$$

where

$$A_1 = \frac{A}{R} + E, \quad A = A + \alpha E$$

and E is the unit matrix. In the case of asymptotic stability the absolute values of the eigenvalues  $\rho_i$  are smaller than unity and

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D266/D306

$A_1^N \rightarrow 0$  if  $N \rightarrow \infty$ . The stability of the system can be determined from the norm of this matrix  $\|A_1^N\| < 1$ . The author states that the structure of the  $A_1^N$  matrix is identical to that of the integral matrix  $e^{At}$ . Thus a good approximation can be obtained by expanding the  $A_1^N$  matrix and using the first term of the expansion  $e^{NA/R}$  where  $N/R$  plays the role of t. If N increases the relative accuracy of the calculations decreases. If the relative error  $\delta$  is given the largest value of t is as follows:

$$t_{\max} = \delta_1 \frac{2R}{\|A^2\|} \quad (9)$$

$$\delta_1 = \ln \frac{1}{1-\delta}$$

or expressing the same with the aid of the original eigenvalues

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Study of control ...

<sup>31272</sup>  
S/103/61/022/011/013/014  
D266/D306

$$t_{\max} = \delta_1 \frac{2R}{|\lambda_{\max}|^2} \quad (12)$$

The author suggests that for the numerical evaluation, the exponent of the matrix should be chosen in the form  $N = 2^k$  ( $k = 1, 2, 3, \dots$ ). Large values of R increase the domain where the calculations are valid and at the same time the number of steps increases only as  $\log_2 R$ . There are 3 Soviet-bloc references.

SUBMITTED: February 8, 1961

4  
1

Card 4/4

ZHMYKHOVA, nna; BORODIN, Ye., red.; GERSHANOV, Ye., red.;  
GUR'YANOV, S., red.; KARZANOV, V., red.; IVANOV, Ye.,  
red.; MAMSUROVA, L., red.; MEDVEDEV, A., red.; KADYROVA, Z.,  
red.

[International Confederation of Free Trade Unions; academic  
lectures on the "International labor and trade-union move-  
ment"] Mezhdunarodnaia konfederatsiia svobodnykh profsoiu-  
zov; uchebnye lektsii po distsipline "Mezhdunarodnoe rabo-  
chee i profsoiuznoe dvizhenie. Moskva, Kursy profdvizheniya  
dlia profaktivistov iz stran Azii, Afriki i Latinskoi  
Ameriki, 1963. 51 p. (MIRA ?? ?)

MAMTSEV, Ye.N.

Method for designing the warp guide rod of STD looms for  
rigidity taking vibrations into account. Izv. vys. ucheb.  
zav.; tekhn. tekst. prom. no.4:151-157 '65. (MIRA 18:9)

1. Moskovskiy tekstil'nyy institut.

MAMTSEVA, V. N.

Organizatsiya Psikhonevrologicheskoy Pomoshchi Detyam v Gorodakh Povolzh'ya.  
p. 501  
V sb. Aktual'n. probl. nevropatol. i psikiatrii. Kuybyshev, 1957.

Iz Gosudarstvennogo Nauchno-issledovatel'skogo instituta psikiatrii MZ RSFSR.

MAMTSVA, V. A.

Two forms of pathological fantasy in slowly progressing schizophrenia -  
schizophrenia in children. Churcheva, I. Naikh. 57 p. (20-12-150).

I. Belinskaya klinika - obozrenie nauchno-prakticheskogo - prof. I.Ye. Likhachev.  
Institut psichiatricheskogo Ministerstva zdravookhraneniya RSFSR, Moscow.  
(Schizophrenia, in infant and child,  
pathology of fantasy in (age))

FEDOTOV, D.D., prof., etv. red.; VRONO, M.S., red., DEYANOV, V.Ya., red.; LAPIDES, M.I., red.; MAMTSEVA, V.N., red.; YURKOV, I.A., red.; NOVLYANSKAYA, K.A., red.; ROKHLEN, L.L., red.; SKANAVI, Ye.Ye., red.

[Problems of pediatric psychoneurology] Problemy psichoneurologii detskogo vozrasta. Moskva, 1964. 530 p.

(MIRA 18:5)

1. Moscow. Gosudarstvennyy nauchno-issledovatel'skiy institut psikiatrii. 2. Klinika psichiatrov detskogo vozrasta Gosudarstvennogo nauchno-issledovatel'skogo instituta psikiatrii Ministerstva zdravookhraneniya RSFSR (for Skanavi, Lapides). 3. Kafedra detskoj psikiatrii Tsentral'nogo instituta uscvershenstvovaniya vrachey (for Novlyanskaya, Mamtseva, Vrono).

LISHTVAN, I.I.; MAMTSIS, A.M.; CHURAYEV N.V.

Studying the cation composition of the absorbing complex of  
lowland peats. Pochvovedenie no.7:60-67 J1 '64.

(MIRA 17:8)

1. Kafedra fiziki Kalininskogo torfyanogo instituta.

LISHTVAN, I.I.; MAMTSIS, A.M.; PETROUKHIN, V.P.

Studying the acidity of peat-bog soils. Pochvovedenie no.5:47-49  
My '65. (MIRA 18:5)

1. Kalininskiy torfyanoy institut.

MAMTSOV, O.N.

Symbols on geographical maps. Geog.v shkole 24 no.6:65-66 N-D  
'61. (MIRA 14:10)

1. l--ya Tal'menskaya shkola Altayskogo kraya.  
(Maps--Symbols)

MANTSOV, O.N.

Students must work during the whole lesson. Geog. v shkole  
25 no.5:61-62 S-0 '62. (15:1)

1. 1-ya shkola Tal'menki Altayskogo kraya.  
(Geography--Study and teaching)

MAMTSOV, O.N.

"Passport" of a town. Geog. v shkole 25 no.6:53-54 N-D '62.  
(MIRA 15:12)

1. 1-ya shkola rabochego poselka Tal'menki, Altayskogo  
kraya.

(Geography, Economic--Study and teaching)

MALOV, N., zhurnalist; MAMTSOVA, L., red.; TURUBAYEV, B., tekhn. red.

[The Bukhtarminsk Sea] Bukhtarminskoe more. Alma-Ate, Kazakhstan  
gos.izd-vo, 1961. 87 p. (MIRA 15:2)  
(Bukhtarminsk reservoir)

L 27191-65 EWT(m)/EPF(c)/EWP(j)/T/EWA(c) PC-4/Pr-4 RPL RM/JW  
ACCESSION NR: AP5005585 S/0190/65/007/002/0193/0198

AUTHOR: Ivanov, V. S.; Mamtsak, M.; Medvedev, Yu. V.; Levando, L. K. 31

TITLE: Polymerization of N-phenylimide 24

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 2, 1965, 193-198

TOPIC TAGS: N phenylimide, poly N phenylimide, polyimide, polymer, polymerization

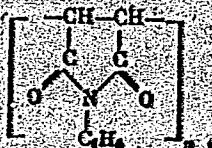
ABSTRACT: A study has been made of 1) the radiation-induced or 2) azoisisobutyronitrile-initiated synthesis of poly-N-phenylmaleimide from N-phenylmaleimide. It is noted that polyimides are of interest owing to their high thermal stability and good electrical, physical, and mechanical properties. In case (1), the radiation source was Co<sup>60</sup>, and the monomer was either in the solid or the liquid state. The effects of the radiation dose, dose rate, temperature, ambient atmosphere, and additives were studied. The results are given in plots and tables. Trichloroacetic acid and a CO<sub>2</sub> atmosphere promoted the reaction, and air inhibited it. In case (2), polymerization was carried out successfully in benzene solution at 60-70°C or in bulk at 94-96°C. The intrinsic viscosity, softening point (300-325°C), decomposition temperature (370-400°C), solubility, and IR spectra were measured for the polymers, and x-ray structural analysis was conducted. The polymer microstructure was found

Card 1/2

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ACCESSION NR: AP5005585

to be the same in cases (1) and (2). Polymerization was shown to proceed via the C=C bond of the imide ring to form the following structure:



Orig. art. has: 4 figures, 1 table, and 1 formula.

[SM]

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED: 09Dec63

ENCL: 00

SUB CODE: OC, GC

NO REF Sov: 009

OTHER: 020

ATD PRESS: 3191

Card 2/2

MAMOL Ya. V.

Possibility of plants assimilating carbonates entering them from soil solutions. A. L. Kursanov, A. M. Kuzin and Ya. V. Mamol. *Doklady Akad. Nauk S.S.R.* 79, 685-7 (1957).—Plants are able to take up carbonates from nutrient soils, and to use these carbonates in photosynthesis. Kidney beans were placed in a nutrient soln. contg.  $\text{NaHCO}_3$  with a tagged carbon atom ( $\text{C}^{14}$ ). The level of radioactivity of the soln. was kept low enough to avoid interference with the normal respiration and photosynthesis of the plants (10 ml. of soln. had a radioactivity of 5 microcuries). Plants were tested in a hermetically sealed glass container through the cork of which the leaves and stem extended. Beans thus sealed were illuminated for 3 and 18 hrs., resp. After exposure of the plants to light, radioactivity of the leaves was measured in terms of impulses per min. for 10 mg. tissue. After 3 hrs. of irradiation, the leaf tissue had low radioactivity both before and after the samples had been digested with HCl. At the close of 18 hrs. of illumination, the amt. of radioactivity in the leaves had increased markedly but was much lower in the leaves than in the stems or the roots. Radioactivity in the leaf and in the root tissue decreased slightly after treatment of the tissue with HCl, but decreased about 1/2 in the stem tissues. Carbonates were evidently carried up to the stem and fixed there before the bulk of them reached the leaves. High radioactivity began at the point in the stem where the stem began to turn green. Radiocautographs of plants kept in darkness showed that some radioactive material was present, but was low. Radiocautographs of plants illuminated after a period of darkness showed more radioactive material throughout the plant, but less in the larger leaves. Small leaves near the stem were about as bright as the stem. A sugar identified as glucose from its osazone was isolated from leaf and stem tissue. The osazone was radioactive. The tagged atom present in the carbonate of the nutrient soln. was taken up by the plant and used in a way similar to the use of  $\text{CO}_2$  from the air.

Nellie M. Payne

3

Inst. Brochene in AN Bel  
Lab. Physics, Isotopes  
and Reactions, AS USSR

MAMUL', Ya, V.

Microradioautography by the method of immersion. Zh. obsh. biol., Moskva  
13 no.4:298-305 July-Aug 1952. (CLML 23:2)

1. Laboratory of the Biophysics of Isotopes and Radiation of the Division of Biological Sciences of the Academy of Sciences USSR.

MAUL', Ya. V.

USSR/Biology, Agriculture - Assimilation of Carbon Dioxide

21 Jul 52

"Assimilation of Carbon Dioxide by Plant Roots," A. M. Kuzin, V. I. Merenov, Ya. V. Maul', Lab of Biophys, Isotopes, and Radiation, Dept of Biol Sci, Acad Sci USSR, "Dok Ak Nauk SSSR" Vol 85, No 3, pp 645-647. Presented 29 Apr 52.

By using  $\text{CO}_2$  or carbonate solns tagged with radioactive carbon, established that CO is resorbed through the roots of Phaseolus vulgaris and reaches the leaves. When there is no transpiration of the leaves, or the roots have been detached,  $\text{CO}_2$  is assimilated by the roots rather than the green parts of the plant. Assimilation of  $\text{CO}_2$  by detached roots of Primula obconica (thus eliminating the effect of any nodule bacteria which may have been present on Phaseolus vulgaris) was also established. Presented by Acad A. I. Oparin 29 Apr 52.

235T6

MAMUT, Ya. V.; KHUDYAKOV, . I.

DCMAN, N.G.; KUZIN, .V.;

Photosynthesis

Probl m of diversity of primary products of photosynthesis in different species of plants. Dokl. AN SSSR 86 no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified

MITSKEVICH, M.S.;MAMUL', Ya. V.

Determination of onset of function of the thyroid gland in bird  
and mammal embryos with the aid of radioactive iodine. Doklady Akad.  
nauk SSSR 88 no. 4:733-736 1 Feb 1953. (CIML 24:1)

1. Presented by Academician K. I. Skryabin 19 December 1952. 2. In-  
stitute of Animal Morphology imeni A. N. Severtsov and Institute  
Biological Physics, both of the Academy of Sciences USSR.

MAMUL, Ya. V.

Chemical Abst.  
Vol. 48 No. 9  
May 10, 1954  
biological Chemistry

Participation of complex polysaccharides in carbohydrate metabolism. A. M. Kurin, G. A. Garzunova, and Ya. V. Mamul. *Doklady Akad. Nauk S.S.R.* 92, 637-40 (1953).—White rat injected intravenously with C<sup>14</sup>-labeled glucose (obtained photosynthetically) shows a rapid increase of C<sup>14</sup> activity in its tail venous blood after 1 hr., after which the activity declines steadily over 0.5 hrs. to almost 0. The activity of tissues (per 100 g.) was in the following declining order: Intestine, kidney, spleen, brain, liver, blood, heart, muscle. Most carbohydrate in the C<sup>14</sup>-contg. fraction is in low-mol.-wt. form in these organs and may contain the glucose formed from degradation of glycogen during the isolation of the tissues. The femoral bone shows considerable uptake of C<sup>14</sup> from the glucose. The gray matter of the brain is much more active in accumulation of C<sup>14</sup> than the white matter. G. M. Kosolapoff

Lab. of Isotopes of Inst. of Biophysics, A.S.USSR

MAMUL, Ya. V.

The quantitative measurements of distribution of radioactive indicators in biological objects by means of radioactive wedge. Ya. V. Mamul. *Trudy Inst. Biol. Fiz.*, I, 262-7 (1955). The method consists of comparison of the variations in the intensities of darkenings of photomicrographs of different bio. objects (tissue slides, etc.) containg radioactive isotopes with corresponding darkenings of the wedge composed of gelatin containg the same isotopes at different intensities. The details of the prepn. and the exact calibration of the wedge are given. The method is indispensable in case of very weak radiations and can be used in a field. A. V. Tolstoukhov

MAMUL', Ya.V.; ORLOVA, L.V.

Vacuum dehydration of frozen tissues. Trudy Inst.biol.fiz. no.1:  
268-275 '55. (MLRA 9:9)  
(FREEZE-DRYING) (ANATOMICAL SPECIMENS)

MAMUL, Ya. V.

1402  
QUANTITATIVE AUTORADIOGRAPHY USING A RADIOACTIVE WEDGE. Ya. V. Mamul Institute of Biophysics of the Academy of Sciences, U.S.S.R. J. Intern. J. Appl. Radiation Isotopes 1, 175-83 (1960) Nov.

IVANITSKAYA, Ye.A.; KUZIN, A.M.; MAMUL', Ya.V.; SHABADASH, A.L.

Changes in the sorption properties of the liver following whole-body  
X irradiation [with summary in English]. Biofizika 3 no.2:220-225  
'58. (MIRA 11:4)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.  
(LIVER) (X RAYS--PHYSIOLOGICAL EFFECT)

GUTKINA, A.V., ABUTYUNOV, V.D., MAMUL', Ya.V.

Methods of dehydrating preparations for fluorescence microscopy.  
Biofizika 3 no.3:362-364 '58 (MIRA 11:6)

1. Institut biologicheskoy fiziki AN SSSR, Moskva i Glavnnyy  
voyennyy gospital' im. N.N. Burdenko.  
(FLUORESCENCE MICROSCOPY)  
(FREEZE-DRYING)

MAMUL', Ya.V., ORLOVA, L.V., SHUVATOVA, T.F., KUZIN, A.M.

Radioautography of frozen tissues [with summary in English].  
Biofizika 3 no.5:591-596 '58 (MIRA 11:10)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.  
(RADIOAUTOGRAPHY  
of frozen tissues (Rus))